8th Grade Math Syllabus

Mr. Jeremy Rasik

[jrasik@lapazschool.org](mailto:jrasik@lapazschool.org)

8449-7003

***Wiki page:*** <https://lapazchirripocolegio2016-2017.wikispaces.com/8+Math>

**Course Description:** In this course, students will explore various aspects of number sense, algebra, geometry and statistics. Students will investigate such topics as algebraic manipulation, graphing skills, functions, linear functions, absolute value, systems of linear equations, quadratic functions, factoring quadratic expressions, polynomials, radical expressions and functions, rational expressions, and exponential expressions and functions through multimedia, classroom discussion, hands-on activities, projects and field trips.

**Required Materials:**

• Computer • Lined paper

• Calculator • Graph paper

• Pencil • Binder

• Pencil sharpener • Dividers

• Colored pencils • Notebook of choice

• Markers • Folder

• Eraser • Ruler

• Highlighter • Compass

• Scissors • Protractor

• Glue • Agenda to record assignments

• Textbook: *Mathematics for the international student*

**Class Topics:**

Real Numbers, Linear Equations, Graphing Relations and Functions, Analyzing Linear Equations, Solving Linear Inequalities, Solving Systems of Linear Equations and Inequalities, Polynomials, Factoring, Quadratic and Exponential Functions, Radical Expressions and Triangles, Rational Expressions and Equations, Statistics, and Probability.

**Course Goals:**

Students will demonstrate through assignments, quizzes, projects, and exams the ability to solve algebraic equations and inequalities, examine and interpret the graphs of functions, solve systems of equations, solve problems using functions, use modeling graphs to interpret and make predictions about real-world functions with regard to mathematical reasoning, problem solving, communication, mathematical connections and use of technology (calculators).

**Class components/Grading:**

The following components will be averaged to create your final grade for each trimester. See information on the grading scale below.

• In-class assignments • Projects

• In-class discussions • Test and quizzes

• Homework • Portfolio selection pieces

**Grading Scale:**

Across grade levels, student work and social development is assessed with a grading rubric from 0-4 *(Please see the student handbook for further information on the grading scale.)*

**0**: No Evidence **1**: Emerging **2**: Developing **3**: Proficient **4**: Exemplary

**Classroom Values**

**1.) Respect:** All other expectations in the classroom are built on respect.Be respectful of your instructor, your classmates and other people’s property and ideas. Treat others in the way that you would like to be treated. Following this simple rule makes our classroom a safe place to have honest discussions and share opinions.

**2**.) **Be Prepared**: Come prepared to learn and to perform your best every day! Make sure to arrive to class on time with all appropriate materials. Assignments should be ready at the beginning of class on the day they are due. All reading or viewing assigned for homework is expected to be completed and you should come prepared with questions and contributions for class discussions.

**3.) Honesty:** Ensure that all the work you turn in is your work. Do not resort to plagiarizing, copying lab write-ups, cheating on an exam, or lying about why an assignment was not completed. Students caught cheating will receive a zero on the assignments and be documented for academic dishonesty. Most importantly don’t cheat yourself out of valuable learning!

**4.) Be Proactive**: Students must take responsibility for their classroom performance and behavior. It’s ultimately up to you whether you will reach your maximum potential in the course or not. Get involved in class discussions and participate in the lab activities. We will be doing a lot of group work and each student is expected to make an effort to be actively involved during these projects. Please come see me if you have any questions or concerns.

**5.) Be present**: Studies show that students who are at school and on time every day perform better academically than those who are often absent or come to school late. School should be one of your top priorities and you should always be present unless you are sick. You’ll find that exams are much more manageable when you learn and experience concepts in class along with your classmates.

**6.) Communicate:** If there is an issue outside of the classroom that takes precedence over science class, please let me know. Your well-being, happiness, safety and family are extremely important. Keep me informed and we’ll work things out.

**7.) Be A Mathematician:** Last but not least, approach our class with a mathematic mindset.Find creative ways to solve problems and strive to understand the process and reasoning behind the mathematic concepts we approach. Don’t be afraid to ask questions or share your methods with the class. Like in life, there are often multiple ways to find the answer.

**Late Work/Make Up Policy:**

* Any work not turned in on time on the assigned due date will be *deducted 0.5 for each school day* it is late.
* In class assignments missed during an *excused* absence may be made up the following day without any deduction.
* All students are responsible for homework posted online regardless of absences.